

Lung Development:

Recommended Reading:

Larsen, Human Embryology 4th Edition, Pages 319-329.

Additional Sources:

1. Sadler TW. Langman's Medical Embryology, 8th edition, pp 260-9, 201-5.
2. Ware, L., Matthay, M.A. (2000) The acute respiratory distress syndrome. N. Engl. J. Med. 342:1334-49.
3. Kovesi, T. and Rubin, S. (2004) Long-term Complications of Congenital Esophageal Atresia and/or Trachoesophageal Fistula Chest: 126:915-925.
4. Metzger, R., Kleain, O., Martin, G., and Krasnow, M. A. (2008) The branching programme of mouse lung development Nature 435:745-751.

Learning Objectives:

1. Know the various stages of lung development and the major events of each stage.
2. Be able to list and localize the cells specific to the lung
3. Understand the role of the epithelial mesenchymal interaction in the growth and development of the lung bud
4. Understand how developmental events can lead to abnormalities at birth or in adults. (neonatal respiratory failure, trachoesophageal fistula, sequestration).